

# Xiong Zhang

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## EDUCATION

- University of Rochester, US Sep. 2015 – Oct. 2020  
Ph.D. in Computer Science, Advisor: Philip J. Guo  
Thesis: Contextualized Exploratory Programming using Webpages as Substrates
- Harbin Institute of Technology, China Sep. 2013 – July 2015  
M.S. in Computer Science, Advisor: Haifeng Li
- Harbin Institute of Technology, China Sep. 2009 – July 2013  
B.S. in Computer Science
- Tsinghua University, China Sep. 2010 – Feb. 2011  
Exchange in Computer Science

## INDUSTRY EMPLOYMENT

- Research Scientist META PLATFORMS INC.  
Oct 2021 – Present
  - Data pre-processing libraries at the PyTorch Ecosystem Foundation team.
- Research Scientist FACEBOOK INC.  
Oct 2020 – Oct 2021
  - Impression logging frameworks at the Core Metrics team.
- Research Intern MEGAGON LABS  
June 2019 – Aug 2019  
Mentor: Çağatay Demiralp
  - Designed and built a prototype system for efficiently exploring large scale review datasets (C.5).
- Research Intern SNAP RESEARCH  
Oct 2017 – Jan 2018  
Mentors: Andrés Monroy-Hernández, Rajan Vaish
  - Designed and built a prototype app for generating Snap stories from crowd users.
- Research Intern FUSE LAB OF MICROSOFT RESEARCH REDMOND  
Jun 2016 – Aug 2016  
Mentors: Will Portnoy, Lars Liden, Andrés Monroy-Hernández
  - Designed and built an information bot for the BumberShoot event in Seattle using Microsoft Bot Framework.
- Research Intern SPEECH GROUP OF MICROSOFT RESEARCH ASIA  
Apr 2014 – June 2015  
Mentors: Lijuan Wang, Qiang Huo, Frank K. Soong
  - Built an End-to-End recognition system for cursive human handwriting with deep learning (Bi-LSTM) and Hidden Markov Model.
  - Experimented with a novel data augmentation method to leverage both online and offline handwriting samples (C.1).
- Research Intern SPEECH GROUP OF MICROSOFT RESEARCH ASIA  
Dec 2012 – Aug 2013  
Mentors: Lijuan Wang, Frank K. Soong
  - Built a speech recognition system to experiment with the idea of combining both audio and video signals on the deep neural net architecture.

## PUBLICATIONS

- W.1 Philip J. Guo, Julia M. Markel, Xiong Zhang: *Learnersourcing at Scale to Overcome Expert Blind Spots for Introductory Programming: A Three-Year Deployment Study on the Python Tutor Website*. ACM Conference on Learning at Scale (work-in-progress), 2020
- C.5 Xiong Zhang, Jonathan Engel, Sara Evensen, Yuliang Li, Çağatay Demiralp, Wang-Chiew Tan: *Teddy: A System for Interactive Review Analysis*. ACM Conference on Human Factors in Computing Systems (CHI), 2020
- C.4 Xiong Zhang, Philip J. Guo: *Mallard: Turn the Web into a Contextualized Prototyping Environment for Machine Learning*. ACM Symposium on User Interface Software and Technology (UIST), 2019
- C.3 Xiong Zhang, Philip J. Guo: *Fusion: Opportunistic Web Prototyping with UI Mashups*. ACM Symposium on User Interface Software and Technology (UIST), 2018

- C.2 **Xiong Zhang**, Philip J. Guo: *DS.js: Turn Any Webpage into an Example-Centric Live Programming Environment for Learning Data Science*. ACM Symposium on User Interface Software and Technology (UIST), 2017 (*Honorable Mention*)
- C.1 **Xiong Zhang**, Min Wang, Lijuan Wang, Qiang Huo and Haifeng Li: *Building Handwriting Recognizers by Leveraging Skeletons of Both Offline and Online Samples*. International Conference on Document Analysis and Recognition (ICDAR), 2015

## TEACHING

- TA for CIS 432 Predictive Analysis using Python *Winter 2018, Spring 2019*
- TA for GBA 464 Programming for Analytics *Summer 2018*
- TA for CIS 442F Big Data *Spring 2018, Spring 2019*
- TA for CSC 212/412 Human Computer Interaction *Spring 2017*
- TA for CSC 210/410 Principles of Web Application Development *Fall 2016*
- TA for CSC 252 Computer Organization *Spring 2016*

## ACADEMIC SERVICE

- Reviewer
  - CHI 2023
  - UIST 2020, 2021
  - CSCW 2018, 2019

## SKILLS

- **Programming**
  - Most familiar with JavaScript and Python.
  - Also comfortable with various programming languages, paradigms and frameworks.

## HONORS & AWARDS

- Honorable Mention Award *UIST, 2017*
- Outstanding Masters Thesis Award *HIT, 2014*
- First Class Graduate Fellowship *HIT, 2013 & 2014*
- First Class People's Scholarship *HIT, 2010*